



# SPYWOLF

## Security Audit Report

(TESTNET)



Completed on  
**November 24, 2023**

@SPYWOLFNETWORK



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SPYWOLF.CO





# OVERVIEW

This audit has been prepared for **Open Seed** to review the main aspects of the project to help investors make an informative decision during their research process.

You will find a summarized review of the following key points:

- ✓ Contract's source code
- ✓ Owners' wallets
- ✓ Tokenomics
- ✓ Team transparency and goals
- ✓ Website's age, code, security and UX
- ✓ Whitepaper and roadmap
- ✓ Social media & online presence

“

*The results of this audit are purely based on the team's evaluation and does not guarantee nor reflect the projects outcome and goal*

- SPYWOLF Team -

”





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## PROJECT DESCRIPTION

### **According to their whitepaper:**

"Openseed.app is an innovative marketplace, where the community comes together to pool their funds and purchase blue-chips NFTs. Our platform provides an opportunity for users to gain access to some of the most sought-after digital assets in the world, regardless of their individual financial resources.

By collectively investing in NFTs, our community members can enjoy the benefits of owning a piece of digital history and potentially reap significant returns."

**Release Date:** Presale starts in November, 2023

**Category:** Marketplace



# CONTRACT INFO

Token Name  
Openseed

Symbol  
OSEED

Contract Address  
Not deployed yet

Network  
N/A

Language  
Solidity

Deployment Date  
N/A

Contract Type  
Staking

Total Supply  
1,000,000,000

Status  
Not launched

## TAXES

Buy Tax  
**none**

Sell Tax  
**none**

\*Taxes cannot be changed



## Our Contract Review Process

The contract review process pays special attention to the following:

- ✓ Testing the smart contracts against both common and uncommon vulnerabilities
- ✓ Assessing the codebase to ensure compliance with current best practices and industry standards.
- ✓ Ensuring contract logic meets the specifications and intentions of the client.
- ✓ Cross referencing contract structure and implementation against similar smart contracts produced by industry leaders.
- ✓ Thorough line-by-line manual review of the entire codebase by industry experts.

### Blockchain security tools used:

- OpenZeppelin
- Mythril
- Solidity Compiler
- Hardhat



# TOKEN TRANSFERS STATS

Transfer Count	N/A
Uniq Senders	N/A
Uniq Receivers	N/A
Total Amount	N/A
Median Transfer Amount	N/A
Average Transfer Amount	N/A
First transfer date	N/A
Last transfer date	N/A
Days token transferred	N/A

# SMART CONTRACT STATS

Calls Count	N/A
External calls	N/A
Internal calls	N/A
Transactions count	N/A
Uniq Callers	N/A
Days contract called	N/A
Last transaction time	N/A
Created	N/A
Create TX	N/A
Creator	N/A



# VULNERABILITY CHECK

Design Logic	Passed
Compiler warnings.	Passed
Private user data leaks	Passed
Timestamp dependence	Passed
Integer overflow and underflow	Passed
Race conditions and reentrancy. Cross-function race conditions	Passed
Possible delays in data delivery	Passed
Oracle calls	Passed
Front running	Passed
DoS with Revert	Passed
DoS with block gas limit	Passed
Methods execution permissions	Passed
Economy model	Passed
Impact of the exchange rate on the logic	Passed
Malicious Event log	Passed
Scoping and declarations	Passed
Uninitialized storage pointers	Passed
Arithmetic accuracy	Passed
Cross-function race conditions	Passed
Safe Zeppelin module	Passed
Fallback function security	Passed



# THREAT LEVELS

When performing smart contract audits, our specialists look for known vulnerabilities as well as logical and access control issues within the code. The exploitation of these issues by malicious actors may cause serious financial damage to projects that failed to get an audit in time. We categorize these vulnerabilities by the following levels:

## High Risk

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Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

## Medium Risk

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Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

## Low Risk

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Issues on this level are minor details and warning that can remain unfixed.

## Informational

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Information level is to offer suggestions for improvement of efficacy or security for features with a risk free factor.





# FOUND THREATS

## ⚠ High Risk

Owner can disable trading.

When trading is disabled and liquidity pair is set as pair address, users will be unable to buy/sell tokens.

```
function updateTradingPaused(bool newValue) public onlyOwner {
    tradingPaused = newValue;
}

function _transfer(address sender, address recipient, uint256 amount) internal override {
    if (tradingPaused) {
        if (!whitelist[sender] && !whitelist[recipient]) {
            require(!isPair[sender] && !isPair[recipient], "Trading is paused");
        }
    }
    super._transfer(sender, recipient, amount);
}
```

- Recommendation:
  - Once enabled, trading should not be disabled again.



## Informational

Owner can add/remove pair address.

```
function addPair(address addr, bool newValue) public onlyOwner {  
    isPair[addr] = newValue;  
}
```

- Recommendation:
  - Before the initial tokens distribution and initial liquidity add, ensure to set the liquidity pair as 'isPair' to prevent random liquidity adds from third parties.



RECOMMENDATIONS FOR

# GOOD PRACTICES

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1

Consider fundamental tradeoffs

2

Be attentive to blockchain properties

3

Ensure careful rollouts

4

Keep contracts simple

5

Stay up to date and track development

## Open Seed

GOOD PRACTICES FOUND

- ✓ The owner cannot mint new tokens after deployment
- ✓ The owner cannot set a transaction limit



# SPYWOLF

## CRYPTO SECURITY

Audits | KYCs | dApps  
Contract Development

# ABOUT US

We are a growing crypto security agency offering audits, KYCs and consulting services for some of the top names in the crypto industry.

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# Disclaimer

This report shows findings based on our limited project analysis, following good industry practice from the date of this report, in relation to cybersecurity vulnerabilities and issues in the framework and algorithms based on smart contracts, overall social media and website presence and team transparency details of which are set out in this report. In order to get a full view of our analysis, it is crucial for you to read the full report.

While we have done our best in conducting our analysis and producing this report, it is important to note that you should not rely on this report and cannot claim against us on the basis of what it says or doesn't say, or how we produced it, and it is important for you to conduct your own independent investigations before making any decisions. We go into more detail on this in the disclaimer below – please make sure to read it in full.

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No applications were reviewed for security. No product code has been reviewed.